*Overview*

## Models

HP AP8760 Dual Radio 802.11a/b/g Access Point JD016A

## Key features

- Simultaneous 802.11a and 802.11b/g support
- PoE power/data via Category 5/6 data cables
- WPA/2, AES, TKIP, WEP packet encryption
- MAC address authentication/filtering
- WDS bridge and repeater configuration

## Product overview

The HP AP8760 Dual Radio 802.11a/b/g Access Point is a fully featured, dual-radio PoE wireless solution for enterprises. Offering simultaneous IEEE 802.11a and 802.11b/g radio support, the AP8760 cost-effectively and securely provides high speeds of up to 108 Mbps in turbo mode, supporting up to 128 wireless users simultaneously. IEEE 802.1Q-compliant VLAN support and VPN passthrough combined with multiple SSID and security profiles enable flexible security design for different user groups, controls access to network resources, and segments user traffic. The AP8760 is a stand-alone AP managed via the Web or CLI interface. This access point can quickly be configured to support WDS for creating LAN to LAN or Building to Building connections.

## Features and benefits

### Management

- **RADIUS accounting**: logs all session details that can be used to generate usage reports or interface to a billing system
- **SNMPv1, v2, and v3**: provide complete support of SNMP; SNMPv3 supports increased security using encryption; provide full support of industry-standard MIBs plus private MIB extensions
- **Rogue AP detection**: regular scans for rogue APs help confirm that the network is secure
- **Web interface**: allows configuration of the access point from any Web browser on the network

### Connectivity

- **Auto-MDIX**: automatically adjusts for straight-through or crossover cables on all 10/100 ports
- **IEEE 802.3af Power over Ethernet** (PoE) **support**: simplifies deployment and dramatically reduces installation costs by helping to eliminate the time and cost involved in supplying local power at each access point location
- **802.11af PoE**: 802.11af 10/100 PoE injector is included
- **International country configuration**: selects the appropriate country, and the access point automatically configures operation to match regulatory requirements

### Performance

- **QoS and Multimedia**: IEEE 802.11e Wi-Fi Multimedia (WMM) wireless QoS standard—when combined with wired QoS policies—provides end-to-end QoS, delivering different wireless channel competitiveness for different services

### Mobility

- **Detachable antenna design**: enables use of external antenna configurations for improved radio coverage and performance

### Layer 2 switching

*Overview*

- VLAN support and tagging: supports the IEEE 802.1Q (4094 VLAN IDs)

Security

- Secure access control by user: media access control (MAC)-based and IEEE 802.1X network access control centralize wireless security through existing Remote Authentication Dial-In User Service (RADIUS) servers to protect the network from unauthorized user access
- Secure access control: multiple authentication modes, including 802.1x, Web portal, MAC address and Point to Point Protocol over Ethernet (PPPoE) certify user identity and network integrity
- WPA2: the latest, toughest standards-based security—with Wi-Fi Protected Access 2 (WPA2), Advanced Encryption Standard (AES) encryption, Temporal Key Integrity Protocol (TKIP), and Wired Equivalency Protocol (WEP) for legacy clients—protects the network from unauthorized user access
- IEEE 802.1X: provides port-based user authentication with support for Extensible Authentication Protocol (EAP) MD5, TLS, TTLS, and PEAP with choice of AES, TKIP, and static or dynamic WEP encryption for protecting wireless traffic between authenticated clients and the access point
- Multiple security profiles:
  - store up to eight different security settings; up to four security profiles per radio

Technical features

- Interoperability: Wi-Fi Alliance certification prevents multivendor interoperability problems
- Bridging: AP can function as a bridge, supporting point-to-point, point-to-multipoint, and repeater modes, ensuring wireless connection to multiple buildings or networks and boosting a signal to a far-away client
- Radio technology: 802.11a and 802.11g standards enable wireless connectivity to 802.11a/b/g/n clients at speeds up to 54 Mb/s

Warranty and support

- 3-year warranty: with advance replacement and next-business-day delivery (available in most countries)
- Electronic and telephone support: limited electronic and telephone support is available from HP; refer to: www.hp.com/networking/warranty for details on the support provided and the period during which support is available
- Software releases: refer to: www.hp.com/networking/warranty for details on the software releases provided and the period during which software releases are available for your product(s)

HP AP8760 Dual Radio 802.11a/b/g Access Point (JD016A)

| | | |
|---|---|---|
| Ports | 1 RJ-45 autosensing 10/100 PoE port (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3af PoE); Media Type: Auto-MDIX; Duplex: half or full | |
| AP characteristics | Radios | Dual (a/b/g) |
| | Radio operation modes | Client access, Local mesh, RF security |
| | AP operation modes | Autonomous |
| | Wi-Fi Alliance Certification* | a/b/g/n Wi-Fi Certified |
| | * HP access points and access devices are Wi-Fi Certified, providing our customers with the assurance that these products have met and passed the rigorous interoperability testing preformed by the Wi-Fi Alliance Organization. See the Specifications section of this series for more information. | |
| Physical characteristics | Dimensions | 6.2(d) x 8.6(w) x 1.6(h) in. (15.75 x 21.84 x 4.06 cm) |
| | Weight | 1.2 lb. (0.54 kg), Fully loaded |
| | Full configuration weight | 1.2 lb. (0.54 kg) |
| | Enclosure | Indoor |
| Mounting | Wall/desktop & celing mount, screw kit, Quick Install Guide | |
| Environment | Operating temperature | 14°F to 104°F (-10°C to 40°C) |
| | Operating relative humidity | 5% to 95%, noncondensing |
| | Nonoperating/Storage temperature | -40°F to 158°F (-40°C to 70°C) |
| | Nonoperating/Storage relative humidity | 5% to 95%, noncondensing |
| Electrical characteristics | Maximum power rating | 7.2 W |
| | Antenna connector | (2) RP-SMA dual band |
| | Antenna | Dual antenna diversity |
| | Number of internal antennas | 0 |
| | Number of external antennas | 2 |
| Frequency band and Operating channels | 2.4 - 2.83 GHz (11-13 channels)<br>5.15 - 5.8 GHz (24 channels) | |
| Radio | EN 300 328; EN 301-489-1; EN 301-489-17; EN 301 893 (EU); RSS-210, Issue 7; RSS-Gen, Issue 2 | |
| Safety | EN 60950-1; EN 60601-1-2; CSA 60950-1; FCC Part 15, Subpart B; FCC Bulletin OET 65; FCC Part 15.247, 15.209, 15.207; FCC Oart 15 Subpart E | |
| Emissions | EN 60601-1-2; EN 301 489-1; EN 301 489-17; EN 50385; FCC Part 15, Subpart B; ANSI C63.4 2003; CFR 47 FCC Part 15.247, 15.205, 15.207, 15.209; EN 300 328; EN 301 893; FCC Part 15 Subpart E Section 15.207, 15.209, 15.407; FCC Bulletin OET 65; FCC 1.1310 and IC Safety Code 6; RSS-Gen (Issue 2, 2007); RSS-210 (Issue 7, 2007); CFR 47 | |
| Medical | EN60601-1-2 | |
| RF Exposure | FCC Bulletin OET-65C; EN 50385; FCC Part 15.247; RSS-210; EN 300-328 | |
| Management | command-line interface; Web browser; SNMP Manager; Telnet; Microsoft Internet Explorer 5.5 / Netscape Navigator 6.0 or higher | |
| Notes | Frequency Band & Operating Channels vary by country. | |

*Technical Specifications*

| | |
|---|---|
| **Services** | Refer to the HP website at: www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office. |

**Radio characteristics: 802.11a**

Modulation: Direct Sequence Spread Spectrum (DSSS) & Orthogonal Frequency Division Multiplexing (OFDM)

| | | | |
|---|---|---|---|
| **Data rate** | 6 Mbps | 24 Mbps | 54 Mbps |
| **Receiver sensitivity** | -87 dBm | -79 dBm | -71 dBm |
| **Transmit power** | 18 dBm | 18 dBm | 16 dBm |

**Radio characteristics: 802.11b/g**

Modulation: Direct Sequence Spread Spectrum (DSSS) & Orthogonal Frequency Division Multiplexing (OFDM)

| | | | | |
|---|---|---|---|---|
| **Data rate** | 1 Mbps | 6 Mbps | 24 Mbps | 54 Mbps |
| **Receiver sensitivity** | -95 dBm | -89 dBm | -81 dBm | -72 dBm |
| **Transmit power** | 18 dBm | 18 dBm | 18 dBm | 16 dBm |

**Standards and protocols** (applies to all products in series)

General protocols
IEEE 802.11a/b/g Wireless Protocol
IEEE 802.11i Wireless Security
IEEE 802.1Q VLANs
IEEE 802.1X PAE
IEEE 802.3 Type 10BASE-T
IEEE 802.3ab 1000BASE-T
IEEE 802.3af Power over Ethernet
IEEE 802.3i 10BASE-T
IEEE 802.3u 100BASE-X

Mobility
IEEE 802.11a High Speed Physical Layer in the 5 GHz Band
IEEE 802.11b Higher-Speed Physical Layer Extension in the 2.4 GHz Band
IEEE 802.11d Global Harmonization
IEEE 802.11f Inter-Access Point Protocol (IAPP)
IEEE 802.11g Further Higher Data Rate Extension in the 2.4 GHz Band
IEEE 802.11i Medium Access Control (MAC) Security Enhancements

Security
IEEE 802.1X Port Based Network Access Control
WPA (Wi-Fi Protected Access)
WPA (Wi-Fi Protected Access)/WPA2

*Accessories*

| | | |
|---|---|---|
| HP AP8760 Dual Radio 802.11a/b/g Access Point accessories | Cables | |
| | HP X270 RSMA to SMA 15cm (6in) Antenna Cable | JD905A |
| | HP X270 Ultra Low Loss 1.8m (6ft) Antenna Cable | JD902A |
| | HP X270 Ultra Low Loss 6.1m (20ft) Antenna Cable | JD903A |
| | HP X270 Ultra Low Loss 15m (50ft) Antenna Cable | JD904A |
| | Wireless Antenna | |
| | HP 3/4dBi Dual Band Ceiling Mount Antenna | JD908A |
| | HP 6/8dBi Dual Band Hallway Antenna | JD910A |
| | HP 8/10dBi Dual Band Patch Antenna | JD911A |
| | HP 6/8dBi Dual Band Omni Antenna | JD907A |
| | HP 18/20dBi Dual Band Patch Antenna | JD909A |

To learn more, visit: www.hp.com/networking

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